## ISSUE SLIP STAPLE APEA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE    |
|---------------------|----------|--------|---------|
| FEE DETERMINATION   | 0.6.     |        | (731/4) |
| O.I.P.E. CLASSIFIER | 7        | 59     | 23199   |
| FORMALITY REVIEW    |          | 21476  | 1/9/59  |

## INDEX OF CLAIMS

| • | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
|   | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | n   | Ohierted     |

| Ė              | _         |          |              |          |          |          |              |              |          |  | 1        |  |     |               |          |                   |          |              |  |          |          |          |                     |           |        |               |            |  |          |          |  |              |          |          |           |          |  |
|----------------|-----------|----------|--------------|----------|----------|----------|--------------|--------------|----------|--|----------|--|-----|---------------|----------|-------------------|----------|--------------|--|----------|----------|----------|---------------------|-----------|--------|---------------|------------|--|----------|----------|--|--------------|----------|----------|-----------|----------|--|
|                | Cla       | im       | <u> </u>     | ,        | _        |          | Da           | te           |          |  |          |  |     | Cla           | im       |                   | Date     |              |  |          |          |          |                     |           |        | Claim         |            |  |          |          | Date   |              |          |          |           |          |  |
|                | Final     | Original |              |          |          |          |              |              |          |  |          |  |     | Final         | Original |                   |          |              |  |          |          |          |                     |           |        | Final         | Original   |  |          |          |  |              |          |          |           |          |  |
|                |           | 3        | 1.           |          |          |          |              |              | Ł        |  | Π        |  | ]   |               | 51       |                   |          | Τ            |  |          | T        |          | П                   |           |        |               | 101        | T  | +        |          | 1  | $\vdash$     | ┢        | _        | H         | Н        |  |
| L              | _         | 2        | <del>-</del> | L        | L        |          | _            | L            | <u> </u> | 1  |          |  |     |               | 52       |                   | L        | $\perp$      | $\mathbb{L}$                                     | L        | L        |          |                     |           |        |               | 102        | T  | 1        | Т        |  |              |          | $\vdash$ | H         | П        |  |
| . [            |           | 3        |              | Ļ        | 乚        | L        | L            |              | L        | L  | L        | L  |     |               | 53       |                   |          |              |  |          |          |          |                     |           |        |               | 103        | ٠.   | T        |          | 1  |              |          | Г        | Н         | П        |  |
| ŀ              | _         | 4        | 1            | L        | <u> </u> | ┖        | <u> </u>     | _            | L        | 4_   | 1        |  | i   |               | 54       | $\perp$           | $\perp$  |              | $\perp$  |          |          |          | П                   |           |        |               | 104        | I  |          |          |  |              |          | $\vdash$ | Н         | П        |  |
| -              | -         | 5        | ├            | <b>I</b> | ₩        | ⊢        | ┞            | ╄.           | ↓_       | ╀  | ↓_       | <del>                                     </del> |     | $\vdash$      | 55       | _                 | 4        | $\bot$       | 1_   | _        | ┞-       | <u> </u> |                     | ╝         |        |               | 105        | ┸  | $\perp$  | L        | L  |              |          |          |           | П        |  |
| H              | 4         | 7        | <del> </del> | ├-       | ⊢        | ⊢        | -            | ├            | <b>├</b> | +-   | 1        | <b>!</b>   |     |               | 56       | $\rightarrow$     | $\bot$   | $\bot$       | ╄  | ╙        | ļ        | L        | Ц                   | 4         |        | _             | 106        | $\perp$  | ┺        |          | L  |              |          |          |           |          |  |
| ╌              | ,         | 8        | -            | -        | ┢        | ┝        | ⊢            | ┼-           | ⊢        | ╀  | ⊢        | -  |     | <u> </u>      | 57       |                   | +        | +            | -  | ╄-       | _        | _        | $\vdash \downarrow$ | 4         |        |               | 107        | _  | ↓_       | ╙        | 1  | L            |          |          |           |          |  |
| · F            |           | 9        | -            | -        | ╀─       | -        | -            | ⊢            | ⊢        | ╀  | -        | -  |     | $\vdash$      | 58       | -                 | +        | ╁            | ╄  | ╄-       | ⊢        | H        | -                   | 4         |        |               | 108        | ┦  | +        | ╄        | ┞-   | L            | <u> </u> | L.       | Ш         | Ш        |  |
| 1              | $\dashv$  | 10       | -            | -        | ┢        | ├        | ⊢            | ╀            | ╁        | ╁╌   | ├-       | Н  |     | $\vdash$      | 59<br>60 | +                 | +        | +            | +-   | -        | -        | -        | $\dashv$            | $\dashv$  |        |               | 109        | $\perp$  | ╀        | ├        | <del> </del>                                     | ├            | <u> </u> | ļ        | Ш         | Ш        |  |
| ŀ              |           | 11       | C            | $\vdash$ | ١.       | -        | ┢            | ┢            | ┝        | 1  | ⊢        | -  |     | Н             | 61       |                   |          | +            | +  |          |          |          |                     | -         |        |               | 110<br>111 | +  | ╌        | ├_       | ⊢  | <u> </u>     |          | L        | Ш         | Н        |  |
| _ ` <b> </b> - |           | 12       | -            | -        |          | $\vdash$ | <del> </del> | -            | ┢        | +  | -        | $\vdash$   |     | Н             | 62       | +                 | +        | +            | +-   | -        | ┝        | Н        | +                   | $\dashv$  |        | _             | 112        | ╁  | ╁        | ├        | ┞.   | <del> </del> | H        | l-i      | Н         | Щ        |  |
|                | _         | 13       | -            | Ι.       | -        |          | 1            | <del> </del> | $\vdash$ | <del>                                     </del> | -        | Н  |     | $\vdash$      | 63       |                   | +        | +-           | ╁  | $\vdash$ | ╁╾       | Н        | +                   | $\dashv$  |        | _             | 113        | +  | ╀        | ├-       | ╌  | <u> </u>     | -        | -        | $\vdash$  | Н        |  |
|                | 7.        | 14       | 4            | 7        |          |          | $\vdash$     |              | H        | $\vdash$   |          | Н  |     | Н             | 64       | $\top$            | 十        | ╁            | +  | ╁        | ╁        | Н        | +                   | ┥         | -      | $\overline{}$ | 114        | +  | ╁╴       | ╁        | ├  | -            | -        |          | Н         |          |  |
| ٦,             |           | 15       | П            | Г        | Г        |          |              |              | $\vdash$ | 1-   |          | H  |     | H             | 65       | $\top$            | 十        | 十            | <del>                                     </del> | T        | $\vdash$ | $\vdash$ | +                   | $\dashv$  |        | _             | 115        | +  | +-       | ╁        | -  | -            | Н        | Н        | Н         | $\dashv$ |  |
| Г              |           | 终        |              | Ŀ        | •        |          | <b>-</b>     | Г            |          | 1  |          | Н  |     | _             | 66       | $\top$            | $^{+}$   | +            | $\vdash$   | $\vdash$ |          |          | $\dashv$            | ┪         |        | _             | 116        | +-   | ╁┈       | -        | ┢  | -            | -        | Н        | H         | $\dashv$ |  |
| 1              | 7         | 17       | 7.           |          |          |          |              |              | Г        | Г  |          | П  |     | П             | 67       | $\top$            | T        | T            |  |          |          |          | T                   | ٦         |        |               | 117        | 1  | T        |          | <del>                                     </del> | -            | -        | -        | Н         | 一        |  |
| £              | $\exists$ | 18       |              | Ĭ.       |          |          |              |              |          |  |          |  | :   | П             | 68       |                   |          |              |  |          |          |          | 13                  |           | İ      | _             | 118        | T  | 1        | $\vdash$ |  |              | Н        |          |           | ᅱ        |  |
| . [            |           | 19       |              |          |          |          |              |              |          |  | Г        |  |     |               | 69       |                   | 1        |              |  |          |          |          | T                   | 7         |        |               | 119        | t  |          |          |  |              |          |          | $\Box$    | $\neg$   |  |
| [              | 1         | 20       |              | ,        |          |          |              |              |          | Γ  |          |  |     | П             | 70       |                   | $\top$   | $\top$       | T  |          |          | П        | 1                   | ٦         | - 1    | _             | 20         | ✝  | 1-       |          | 1  | Н            | $\neg$   | -        | П         | ᅱ        |  |
| +              | $\top$    | 21       | •            |          |          |          |              |              |          |  |          |  |     |               | 71       | _                 | 1        | $\top$       |  |          |          | H        |                     | ┪         | 1      | $\dashv$      | 121        |  | -        |          | $\vdash$   |              | -        |          | _         | ᅥ        |  |
|                |           | 22       | 1            |          |          |          |              |              |          | Ī  |          | П  |     | _             | 72       | _                 | 1        | 1            | 1  |          |          |          | 7                   | 7         | ı      | $\rightarrow$ | 22         |  | 1-       | _        |  |              | $\neg$   | $\neg$   | $\dashv$  | ᅱ        |  |
|                | _         | 23       |              |          |          |          |              |              |          |  |          |  |     |               | 73       | T                 | T        |              |  |          |          |          | T                   | 7         | ı      |               | 123        | $\dagger$  |          |          |  | П            | 7        | $\neg$   | _         | ᅥ        |  |
|                |           | 24       |              |          |          |          |              |              |          |  |          |  |     |               | 74       |                   |          |              |  |          |          |          |                     | 7         | ı      |               | 24         | 1  |          |          |  |              | _        |          | $\dashv$  | ヿ        |  |
| L              | _         | 25       | $\Box$       |          |          |          |              | Ш            | L        |  |          |  |     |               | 75       |                   |          |              |  | ·        |          |          |                     |           |        | ·             | 25         | Ī  |          |          |  |              |          |          | コ         | ヿ        |  |
| L              | _         | 26       |              |          |          | _        |              |              |          |  |          |  |     | _             | 76       |                   | $\perp$  |              |  |          |          |          |                     |           |        | _             | 26         |  |          |          |  |              |          |          | $\Box$    | П        |  |
| L              | _         | 27       | _            | _        |          |          | _            |              | _        |  | $\Box$   |  |     |               | 77       |                   | ┸        |              |  |          |          |          |                     |           |        |               | 27         |  |          |          |  |              |          |          | $\Box$    |          |  |
| L              | _         | 28       | _            | _        |          |          | _            |              |          | Ш  |          |  |     | -             | 78       | $\bot$            | 上        |              |  |          |          |          |                     |           |        | _             | 28         |  |          |          |  | $_{\perp}$   |          |          | $\Box$    |          |  |
| $\vdash$       | _         | 29       |              | _        |          |          | $\dashv$     | Ш            |          | Ш  | $\sqcup$ | _  |     | $\rightarrow$ | 79       | _                 | 1_       | <u> </u>     |  |          |          | _        |                     |           |        |               | 29         | L  | Ш        |          |  |              |          |          | $\Box$    |          |  |
| $\vdash$       |           | 30       | $\dashv$     | -        |          | -        | _            | _            |          | Ш  | $\perp$  | _  |     | -             | 80       | $\perp$           | 4        | ــــ         | Щ  |          | _        |          | _                   | 4         | Į.     |               | 30         | $\perp$  |          |          | _  | _            | _        | _        | _         |          |  |
| ┝              | -         | 31<br>32 | $\dashv$     | _        | -        |          | $\dashv$     | -            | _        | Н  | _        | 4  |     | $\rightarrow$ | 81       | +                 | ╁        | _            | Н  |          | _        | $\perp$  |                     | 4         | ļ      | _             | 31         | Ш  | Ш        | _        | _  |              | _        | 4        | 4         | 4        |  |
| $\vdash$       | _         | 33       |              | _        | $\dashv$ |          | $\dashv$     | $\dashv$     | _        | Н  |          | -1   | - 1 | -             | 82       |                   | +-       |              | -  |          | 4        | -        | _                   | 4         | ŀ      | $\rightarrow$ | 32         |  | Щ        | _        | _  | _            | 4        | _        |           | 4        |  |
| ┝              | _         | 34       | $\dashv$     | $\dashv$ |          |          | $\dashv$     |              |          | Н  |          | $\dashv$   | H   | $\rightarrow$ | 33 B     | +                 | +-       | <del> </del> | $\vdash$   |          | -        | +        | +                   | 4         | -      |               | 33         |  |          | _        | -  | _            | 4        | _        |           | 4        |  |
| -              |           | 35       | $\dashv$     | $\dashv$ | -        | -        | -            | $\dashv$     |          | $\vdash \vdash$                                  | -        | $\dashv$   |     | _             | 85       | +                 | +        | ╁            | $\vdash$   | -        | -        | -        |                     | $\dashv$  | -      |               | 34<br>35   | <del>                                     </del> | Н        | 4        | 4  | $\dashv$     | 4        | -+       | +         | $\dashv$ |  |
| +              |           | 36       | $\dashv$     | -        | -        | +        | $\dashv$     |              |          | $\vdash$   | $\dashv$ | $\dashv$   |     |               | 36       | +                 | +        | $\vdash$     | $\vdash$   | -        | -        | $\dashv$ | - -                 | 4         | -      |               | 36         |  | $\vdash$ |          | -  | -+           | -        | $\dashv$ | +         | $\dashv$ |  |
| $\vdash$       | _         | 37       | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$ | +            |              | $\dashv$ | $\vdash$   | $\dashv$ | $\dashv$   | 1   | _             | 37       | +                 | +        | $\vdash$     | -  |          | -        | $\dashv$ | +                   | 4         | -      |               | 37         | $\vdash$   |          |          |  |              | $\dashv$ | $\dashv$ | +         | $\dashv$ |  |
| $\vdash$       | _1        | 38       | +            | $\dashv$ | $\dashv$ | $\dashv$ | +            | +            | -        | ╁  | $\dashv$ | $\dashv$   | 1   | _             | 38       | +                 | +        |              |  |          | -        | -+       | +                   | 4         | H      | _             | 38         | H  |          |          | -  | $\dashv$     | $\dashv$ | +        | +         | $\dashv$ |  |
| H              | _         | 39       | $\dashv$     | 7        | -+       | +        | $\dashv$     | $\dashv$     | $\dashv$ | $\dashv$   | 7        | $\dashv$   | -   | _             | 39       | +                 | +-       | $\vdash$     |  | -        | $\dashv$ | $\dashv$ | +                   | $\forall$ | H      | _             | 39         | $\vdash$   | $\vdash$ | $\dashv$ | $\dashv$   | $\dashv$     | +        | $\dashv$ | +         | ᅱ        |  |
|                | -         | 10       | +            |          | 7        | 7        | $\dashv$     | -            | -        | ij   | 7        | $\dashv$   | ŀ   | $\rightarrow$ | 90       | +                 | +        |              | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | +                   | 1         | H      | _             | 40         | $\vdash$   |          | -        | $\dashv$   | -+           | $\dashv$ | $\dashv$ | +         | $\dashv$ |  |
|                | +         | 11       | $\dashv$     | 7        | $\dashv$ | 7        | +            | $\dashv$     | $\dashv$ | $\vdash$   | $\dashv$ |  | ŀ   |               | 91       | +                 | +        |              | $\dashv$   | $\dashv$ | -        | +        | $\dashv$            | +         | H      |               | 41         |  | $\vdash$ | $\dashv$ | -  | -+           | $\dashv$ | +        | +         | $\dashv$ |  |
| $\vdash$       |           | 2        | $\dashv$     | +        | +        | +        | $\dashv$     | -            | ᅱ        | $\vdash$   | +        | $\dashv$   | 1   |               | 2        | +                 | +        | $\vdash$     |  | -        | +        | -        |                     | +         | -      |               | 42         | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$     | +        | $\dashv$ | +         | $\dashv$ |  |
| $\vdash$       |           | 13       | 1            | 7        | 寸        | -+       | $\dashv$     | _            | $\dashv$ | $\dashv$   | $\dashv$ | -  | ŀ   |               | 93       | +                 | +        | $\vdash$     | -  | ᆉ        | $\dashv$ | +        |                     | -         | <br> - |               | 43         | $\vdash$   | $\dashv$ | -+       | +  | $\dashv$     | $\dashv$ | -+       | +         | $\dashv$ |  |
|                | 7         | 14       | 1            | $\dashv$ |          | 寸        | _            | $\dashv$     | $\dashv$ |  | $\dashv$ | $\dashv$   | ŀ   |               | 94       | $\top$            | +-       |              |  | -        | +        | $\dashv$ | +                   | 1         | +      |               | 44         |  |          | -        | $\dashv$   | $\dashv$     | $\dashv$ | +        | +         | $\dashv$ |  |
| F              | 4         | 15       | $\forall$    | 7        | $\dashv$ | $\dashv$ | $\dashv$     | 7            |          |  | +        | $\dashv$   | 1   |               | 55       |                   | $\vdash$ | $\vdash$     | $\vdash$   | $\dashv$ | -        |          | +                   | 1         | 1      |               | 45         | $\vdash$   | $\dashv$ | +        | $\dashv$   | $\dashv$     | $\dashv$ | +        | +         | $\dashv$ |  |
|                | 1         | 16       | 1            | 7        |          | $\dashv$ | 7            | $\neg$       |          | $\neg$   | 1        | $\neg$   | 1   |               | 6        | 1                 |          |              |  |          | 1        | +        |                     |           | -      |               | 46         | $\vdash$   | $\dashv$ | +        | $\dashv$   | $\dashv$     | $\dashv$ | $\dashv$ | +         | $\dashv$ |  |
|                | 4         | 12       | $\Box$       | $\dashv$ |          | T        | 寸            | $\dashv$     |          | $\neg$   | $\dashv$ | $\neg$   | Ì   | 1             | 7        | $\top$            | 1        | П            | $\dashv$   | 寸        | 1        | +        | $\top$              | 1         | t      | h             | 47         |  | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$     | 7        | $\dashv$ | $\dagger$ | $\dashv$ |  |
|                | 4         | 8        | 7            |          |          |          |              |              |          | $\Box$   | 7        | $\neg$   | ı   | -             | 8        | $\top$            | 1        |              |  | _        | +        | $\neg$   | $\top$              | 1         | 卜      |               | 48         | $\vdash$   |          | $\dashv$ | $\dashv$   | $\dashv$     | $\dashv$ | +        | +         | $\dashv$ |  |
|                | 4         | 19       |              |          | I        |          |              |              |          |  | J        |  | 1   |               | 9        |                   | T        | П            |  | ı        | $\dashv$ | 7        | $\top$              | 1         | r      | 1             | 49         | $\Box$   | _        | 7        | 7  | $\dashv$     | 7        | +        | $\top$    | 7        |  |
| L              | 5         | 0        | <b>_,</b> [  | _        | $\Box$   | $\Box$   | $\Box$       | $\Box$       |          |  |          | $\Box$   |     | 1             | 00       | $\prod_{i=1}^{n}$ |          |              |  |          |          |          |                     | ]         |        | 1             | 50         |  |          |          |  |              | T        | Ī        | $\Box$    | ╛        |  |

If more than 150 claims or 10 actions staple additional sheet here

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